
Product Data Sheet

Product Name: 3x DYKDDDDK Tag TFA

Cat. No.: GC68392

Chemical Properties

Cas. No.

Formula $C_{125}H_{177}F_3N_{30}O_{60}$ M.Wt 3116.9Solubility H₂O : ≥ 100 mg/mL
(32.08 mM) Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

DYKDDDDK peptide (FLAG) is a useful tool for investigating the function and localization of proteins whose antibodies (Abs) are not available. Often it is also used in a 3X FLAG format (3x DYKDDDDK Tag TFA) for purifying difficult proteins that accumulate in low abundance [1][2].

HEK293 cells transiently transfected with HARS-expressing plasmids were harvested and lysed in CellLytic M buffer containing mammalian protease inhibitor cocktail for 20 min at 4 °C. FLAG-tagged HARS is purified by binding to an anti-DYDDDDK resin per manufacturer protocol and eluted by competition with 3X-DYKDDDDK peptide in buffer containing 50 mM Tris-HCl pH 7.4, and 150 mM NaCl (purification of human HARS)[2].

[1]. Mishra V. Affinity Tags for Protein Purification. Curr Protein Pept Sci. 2020;21(8):821-830.

[2]. Abbott JA, et al. The Usher Syndrome Type IIIB Histidyl-tRNA Synthetase Mutation Confers Temperature Sensitivity. Biochemistry. 2017;56(28):3619-3631.

Caution: Product has not been fully validated for medical applications. For research use only.

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